

Store 8 - Pikeville Machine Id JOHN DEERE EX-08 Component Diesel Engine Fluid SHELL ROTELLA T 15W40 (14 GAL)

RECOMMENDATION

We advise that you check for the source of the coolant leak. Check for low coolant level. We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

WEAR

The lead level is abnormal. Cylinder, crank, or cam shaft wear is indicated.

CONTAMINATION

Sodium and/or potassium levels are high. Elemental levels of silicon (Si) and aluminum (AI) indicate alumina-silicate (coarse dirt) ingress.

ter, air induction ponent. Oil and We recommend	Machine Age	hrs	Client Info		2104	575	
	Oil Age	hrs	Client Info		568	575	
	Filter Age	hrs	Client Info		568	575	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				SEVERE	ABNORMAL	
haft wear is	Iron	ppm	ASTM D5185m	>51	1 04	57	
	Chromium	ppm	ASTM D5185m	>11	2	<1	
	Nickel	ppm	ASTM D5185m	>5	2	1	
	Titanium	ppm	ASTM D5185m		1	12	
	Silver	ppm	ASTM D5185m	>3	<1	0	
	Aluminum	ppm	ASTM D5185m	>31	1 4	6	
	Lead	ppm	ASTM D5185m	>26	4 37	24	
	Copper	ppm	ASTM D5185m	>26	23	4 343	
	Tin	ppm	ASTM D5185m	>4	4	4	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
levels of silicon se dirt) ingress.	Silicon			>!20	A 05	9	
	Potassium	ppm	ASTM D5185m ASTM D5185m	>20	▲ 35 ▲ 155	18	
	Fuel	ppm	WC Method	>20 >5		<1.0	
	Water		WC Method		<1.0 NEG	×1.0 NEG	
	Glycol	%	*ASTM D2982	>0.21	NEG	NEG	
	Soot %	%	*ASTM D2902	>3	0.5	0.3	
	Nitration	Abs/cm	*ASTM D7624	>20	14.0	11.	
	Sulfation	Abs/.1mm	*ASTM D7024	>30	28.8	25.	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	
y remaining in the	Sodium	ppm	ASTM D5185m	>31	1078	13	
	Boron	ppm	ASTM D5185m	316	28	62	
	Barium	ppm	ASTM D5185m	0.0	0	0	
	Molybdenum	ppm	ASTM D5185m	1.2	259	186	
	Manganese	ppm	ASTM D5185m		2	4	
	Magnesium	ppm	ASTM D5185m	24	688	702	
	Calcium	ppm	ASTM D5185m	2292	1372	1408	
	Phosphorus	ppm	ASTM D5185m	1064	718	819	
	Zinc	ppm	ASTM D5185m	1160	925	1011	
	Sulfur	ppm	ASTM D5185m	4996	3725	2290	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	26.5	25.	
	Base Number (BN)	mg KOH/g		10.1	7.0	7.30	
	Visc @ 100°C	cSt	ASTM D445	157	13/	10.17	

ASTM D445 15.7

Test

Sample Number

Visc @ 100°C cSt

Sample Date

UOM

Method

Client Info

Client Info

Limit/Abn

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil.

10.17

13.4

Current

LEC0033820

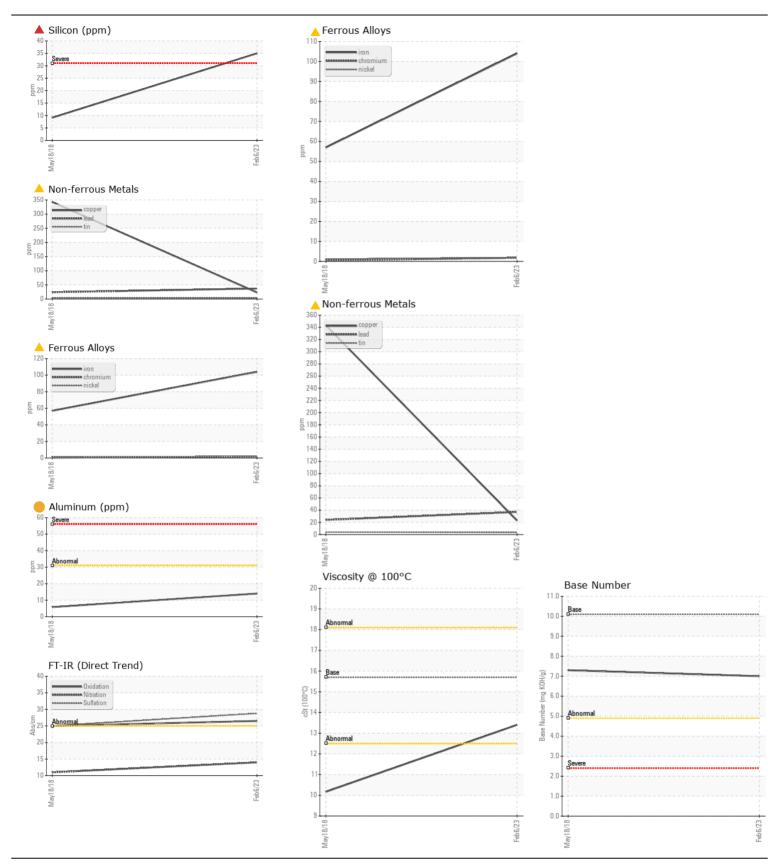
06 Feb 2023

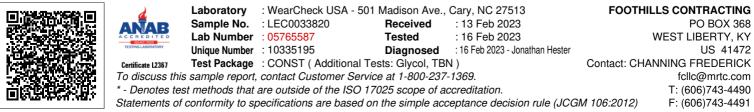
History1

18 May 2018

LECP188501 ----

History2





Contact/Location: CHANNING FREDERICK - FOOWES Page 2 of 2